Mechanical Integrity Test Casing or Annulus Pressure Test for Well CO1516-02115 U.S. Environmental Protection Agency

Underground Injection Control Program, UIC Implementation Section, 8WM-DW 999 18th Street, Suite 500, Denver, CO 80202-2466

This form was printed on 08/08/1996.

Test conducted by: Ken Merstelder Others present: heroy Pangle	71
SUCKLA FARMS #1 SPINDLE Wright's Disposal, Inc., Denver, CO Last MIT: Passed 07/09/1993 Max Allowed Press 3700 psig 1X TA as of 06/16/1992 SENW 10 10N 67W Op ID WRT02 Witnessed by EPA 1995 Max Reported Press 0 psig	
Is this a regularly scheduled test? [] Yes [] No Initial test for permit? [] Yes [] No Test after well rework? [] Yes [] No	
Well injecting during test? [V] NO [] YES B	BPD
Initial casing/tubing annulus pressure psig Does the annulus pressure build back up? [Yes [] No	

	TUBING PR	ESSURE					
Initial	psig	psig	psig				
	psig	psig	psig				
End of Test psig Psig CASING/TUBING ANNULUS PRESSURE							
Time	Test #1	Test #2	Test #3				
0 min	psig	psig	psig				
5	1060						
10	1075						
15 min	1090						
20	1115						
25	1130	75 5-1	TITUED				
30 min	1145	REY	LEWED				
		BY:	100.				
		DATE	16/3/97				
Result (circle)	Pass Fail	Pass Fail	Pass Fail				

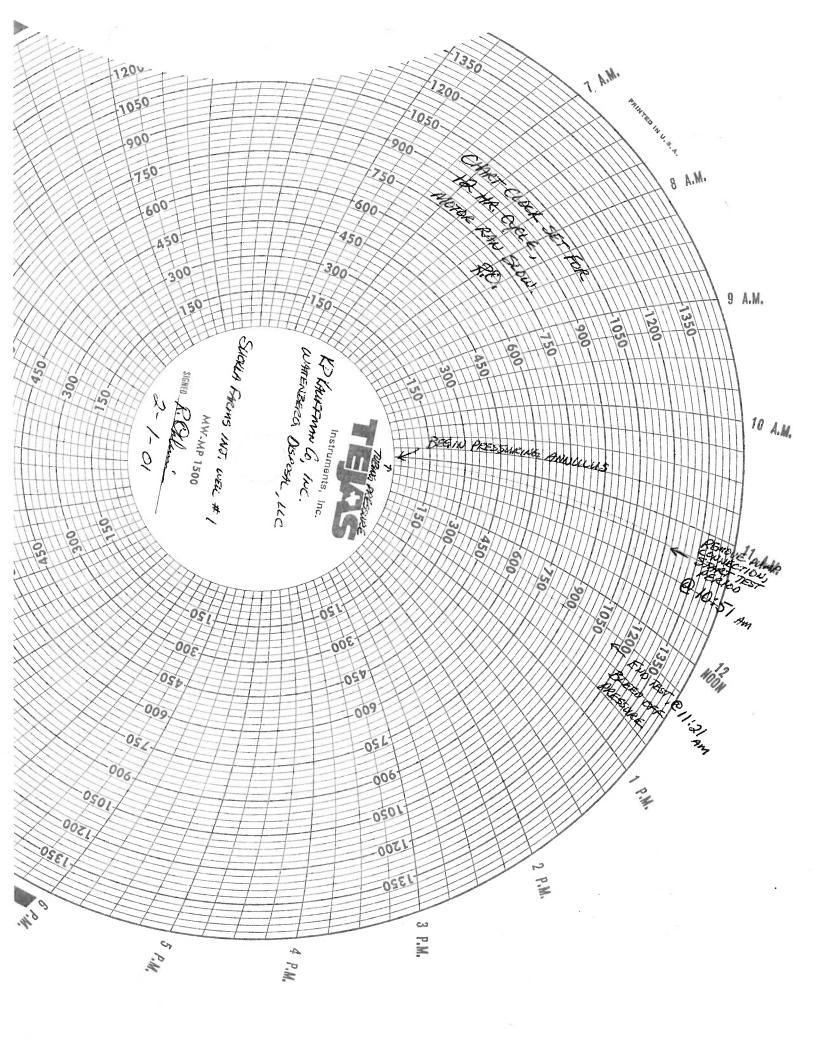
WASHINGTON, DC 20460 WELL REWORK RECORD NAME AND ADDRESS OF CON RACTOR NAME AND ADDRESS OF PERMITTEE KP KANFFMAN CO., INC WATTENBERG DISPOSAL, LLC 1675 BROADWAY, STE 2800 1675 BROADWAY, STE. 2800 DENVER CO DENVER CO COUNTY STATE PERMIT NUMBER LOCATE WELL AND OUTLINE UNIT ON WELD CO1516-02115 SECTION PLAT -- 640 ACRES SURFACE LOCATION DESCRIPTION SE NOF NW NOF 14 SECTION 10 TOWNSHIP / N RANGE 67W LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location 500 ft. from (N/S) ____ Line of quarter section and 202 ft. from (E/W) W Line of quarter section WELL ACTIVITY Total Depth Before Rework TYPE OF PERMIT M Brine Disposal 9571 ⊠ Individual ☐ Enhanced Recovery ☐ Area **Total Depth After Rework** ☐ Hydrocarbon Storage Number of Wells_ **Date Rework Commenced** Lease Name Well Number 1-26-01 SUCKLA FARMS INSECTION WELL #1 #1 **Date Rework Completed** 1-31-01 WELL CASING RECORD — BEFORE REWORK Casing Cement **Perforations** Acid or Fracture Size Depth Sacks Туре From Treatment Record 8 % 759 "Gi 200 1000 GK 7/2 % HCL 2000 GAL 15% FE ACID, AUG. 19, 2000 G" 9557 255 9276 9418 WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only) Casing Cement Perforations Acid or Fracture Size Depth Sacks Туре Treatment Record DESCRIBE REWORK OPERATIONS IN DETAIL WIRE LINE LOGS, LIST EACH TYPE **USE ADDITIONAL SHEETS IF NECESSARY** Log Types Logged Intervals PULLED TBG & PACKER, LAID DOWN 5500 OF PLAIN TUBING ADDED 5500' OF FIBERLINE TUBING TO EXISTING 3500' OF FIBERLINE TUBING. CIRCULATED PACKER FLUID, SET PACKER MIT CONDUCTED ON 2-1-01 CERTIFICATION I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32). IAME AND OFFICIAL TITLE (Please type or print) SIGNATURE

DATE SIGNED

2-1-01

RICK OHLEMEIER

CEMPLETION SUP., KP KAUFFMAN CO.



NAME AND ADDRESS OF FERMITTE MARTING MEAN ADDRESS OF SEATH LC	VEF	A			WEL	LREW	ORK	RECORI	0			Co 2115
UCCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES SUPRACE LOCATION DESCRIPTION SUPRACE LOCATION	WATTER 1675 L	IBERG DISPO BROADWAY,	05AL, LLC STE. 2800				NAN KAU 10.	IE AND ADDRE	WELL SER	EVICE		
Surfice Disposal WELL ACTIVITY WHITE CASING RECORD — BEFORE REWORK Casing Canners Well CASING RECORD — BEFORE REWORK Casing Commenced 3-5-03 Date Rework Completed 3-5-03 Date Rework Omega Completed 3-5-03 Date Rework Completed 3-5-03 Date Rework Omega Completed 3-5-03 Date Rework O	LOCATE	WELL AND OUTL	INE UNIT ON		CO SURFACE L SE W	OCATION OF N	DESCRIPTI	ON 14	SECTION 10	TOW	CO1516-0	2115
WELL CASING RECORD — BEFORE REWORK Casing Cament Perforations Acid or Fracture Treatment Record 9 7 75 7 800	w			Ε	Surface Location 500 ft. from (E and 2020 ft. from (E WELL ACTIVI Brine Disposal Enhanced Record Hydrocarbon Sto		Surface Location 500 ft. from (N/S) Sund 2020 ft. from (E/W) W Li WELL ACTIVITY Brine Disposal Enhanced Recovery Hydrocarbon Storage		Line of quarter section Line of quarter section Total Depth Before Rework 9571 F1. Total Depth After Rework 9571 F7.		TYPE OF PERMIT Individual Area Number of Wells	
Casing Cament Perforations Acid or Fracture Size Depth Sacks Type From To Treatment Record Size Depth Sacks Type From To To Treatment Record Cament Perforations Acid or Fracture WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only) Casing Cament Perforations Acid or Fracture Size Depth Sacks Type From To Treatment Record GREEN St.J. Sacks Type Treatment Record GREEN St.J. Sacks Type Treatment Record CERTIFICATION I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).	S			3-S Date Rewo			5-03 # /			T.B.		
Size Depth Sacks Type From To Treatment Record 1				W	ELL CASIN	IG RECO	RD — BE	FORE REW	ORK			
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(DULCE FORM) MANAGER 1 1812 W		_			SIGNAT	TURE C	Du				E SIGNED	

SUPERVISOR: Rick Ohlemeier

Well: SUCKLA FARMS INJ. WELL #1 Road Dir: 19 at 10.5, .25E, N into

Noad Dir. 19 at 10.5, .25E, N 1110

DATE:

see below

L. Desc: senw 10-1n-67w County: WELD, CO Line Locate: n/a

Formation: Lyons Perfs: 9276-9418 194 holes

Casing: 5.5" 20# N-80 TD: 9571 PBTD: 9476 KB Meas: 10

3/4/03 MI and park rig near loc. NFO at 2:30 pm. WO equip, gathering.

3/5/03 MIRU. MI KWS front end loader. Took delivery of 98 2-7/8" Fiberline tubing joints from ICO-Permian and unloaded on sills. Discontinue disposal injection, bled off pressure tubing and annulus, recovered 6 bo off annulus and have clean packer fluid below. NDWH, release packer, POH and stand back tubing. Pulled packer through tight spot w/61 jts out, depth of tight spot is calculated to be approx. 7088'. Continue pulling. (Current ops to 3 pm)

- 3/6/03 After 3 pm, 3/5: Pull total of 168 jts, SWI, NFO. Today: POH remaining tubing and packer. RIH w/5.5" casing scraper, bumper-sub, x-overs, 10 jts 2-3/8" tubing and 290 jts 2-7/8" tubing. Total string tally = 9432.14', ran to 9437' KB, (perfs from 9276 to 9418). POH and stand back tubing. (Current ops to 3 pm)
- 3/7/03 After 3 pm, 3/6: Recover all tools, SWI, NFO. Today: RIH w/redressed Arrowset I packer on 271 jts 2-7/8", hydrotesting packer and tubing to 6000 psi. Set at 8506' (cement top at 8406'), load and test annulus, pumped 10 bf at 3/4 bpm at 500 psi. during repeated testing. Release packer, pull and reset on 129 jts at 4041', annular test held 500 psi for 10 min. Release pkr, run and reset on 195 jts at 6105', annular test failed, pumping into at 3/4 bpm at 500 psi. SWI. NFO at 5:30 pm.

3/8/03 (During workover, Aug. of 2000, casing tight spot was reamed open w/tapered mill at 4925'.) Pulled and set packer at 4854'.

Cont. testing:	Depth	Annular test	(Testing done at 500 psi.)
	4854'	Good	_
	4979'	Good	(Reamed area tested good)
	5042'	Good	
	5542'	Fail	
	5291'	Fail	
	5167'	Good	
	5229'	Good	
	5261'	Good	Leak top interval below 5261'

POH tubing and pkr. RIH w/5.5" retrievable bridge plug (RBP) to 6200' and leave hanging for night. SWI.

- 3/9/03 RIH w/RBP. Set on 275 jts at 8630', (224' below cement top at 8406'). Pump and spot 2 sks sand on plug. POH tubing and retrieving head. RIH w/redressed 5.5" Arrowset I packer and set on 169 jts at 5292'. Test down tubing to 500 psi good test. Pull and reset packer on 159 jts at 4979'. Test annulus to 500 psi, good test. Pump down tubing, establish rate of 1 bpm at 550 psi, for 10 min. No strong blow, no circulation out surf. csg. SD pump, release all pressure, SWI. Release crew at 3 pm.
- 3/10/03 Excavate circ. pit on loc. MI Halliburton for cement squeeze, establish pump rate through leak at 1.5 bpm and observe pressure increase to 1600 psi. Mix and pump 75 sks standard cement containing 3% kcl, .2% CFR-3, and .2% Halad-344. Density 15.6 lbs/gal, yield 1.18 cuft/sk. Displace cement with 30.5 bbl fresh water and squeeze to 2000 psi over next 1.5 hrs. Release packer and pull to 1100'. Reset packer and pressure tubing to 500 psi. SWI. Prep drilling equip. Release crew at 2 pm.
- 3/11/03 450 psi remains on tubing this morning. Release pressure, release packer, POH tubing and packer. RIH 4-3/4" 4-pronged blade bit, sub and tubing. Tag tight spot at 4925' with 157 jts. RU power swivel, reverse-circulate and rotate 20 min. w/no progress. RD swivel, POH tubing and tools. Took 4-3/4" 3-pronged blade bit to J&M Machine to be turned down to 4-5/8". Drain equip.
- 3/12/03 RIH with 4-5/8" 3-pronged blade bit, sub and tubing, tag cement with 161 jts + 5' next, at 5038'. RU power swivel, drill medium to hard cement to 169 jts, at 5278'. Run to 5310' and rev-circ clean. RD power swivel. Pack-off wellhead and test casing to 1000 psi for 30 min. Lost 80 psi by end of test. Release pressure, drain circ. equip. SWI. NFO.

SUPERVISOR: Rick Ohlemeier

Well: SUCKLA FARMS INJ. WELL #1 Road Dir: 19 at 10.5, .25E, N into

L. Desc: senw 10-1n-67w County: WELD, CO

Line Locate: n/a

see below

Formation:

Casing:

Lvons

5.5" 20# N-80

Perfs: 9276-9418 194 holes

TD: 9571

PBTD: 9476

KB Meas: 10

DATE:

3/13/03 POH bit and tubing. MIRU ADI Wireline. Run GR, CBL per EPA specs across squeeze area. Good 85% bonding from collar leak at 5264' up-hole to 5198', with cement top at 5154'. Release ADI. RIH with RBP retrieving head, tag sand fill above RBP at 8618', reverse-circulate clean to plug, latch onto and retrieve, begin POH and laying down unlined 2-7/8" tubing. (Current ops to 3 pm.)

- 3/14/03 Finish POH, laying down tubing, recover RBP and retrieving head. SWI, NFO at 11 am. WO ICO Permian technician to arrive Sat. Will run fiberline tubing then.
- 3/15/03 Move in ICO Permian technicians. PICK up, tally, and redress each Fiberline tubing collar with new high temperature mastick. RIH Arrowset I (nickle-plated ID) packer, stainless steel profile nipple, and tubing. Torque each connection to 2750 ft lbs. Reverse-circulate 150 bbl fresh water treated with 20 gal. Halliburton AnHib II. Set packer and test casing to 500 psi. Packer is set and holding, but wellhead pack-off rubber leaking. Release pressure. SWI. NFO at 6:45 pm. Tubing detail: Bottom: 7.20' -- 2-3/8"x5.5" Arrowset I nickle-plated packer. Next: 0.80' -- 2-7/8"x2-3/8" profile nipple, stainless steel. Next: 9021.99' -- 284 jts 2-7/8" OD, EUE, 8rd, 6.5# N-80 Fiberglass-lined tubing. Packer set with 8 pts tension at 9040' KB.

3/16/03 No ops.

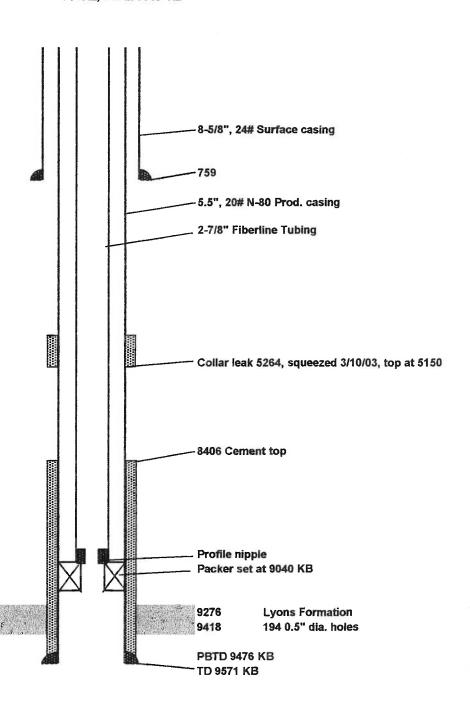
3/17/03 Replaced wellhead pack-off rubber and pre-tested annulus to 1000 psi. Released pressure. Install two pen recorder, conduct mechanical integrity test to 1020 psi for 30 minutes. Pressure dropped to 980 psi by end of test. Robert Carter, Halliburton Services, witnessed the test. RDMO Rig #2.

SUPERVISOR: Rick Ohlemeier

Well: Suckla Farms Injection Well #1 Road Dir: 19 at 10.5, 3/10E, N into DATE: 3/15/03 County: Weld, CO L. Desc: senw 10 1n 67w Line Locate: n/a Formation: Perfs: 9276-9418, 194 holes Lyons Casing: 5.5" 20# N-80 TD: 9571 PBTD: 9476 KB Meas: 10

Injection tubing detail:

Footage	No. jts.		
10.00	KB	Top of tubing under 10' KB meas.	
9021.99	284	Tbg 2-7/8" OD, EUE, 8rd, 6.5#, N-80, Fiberglass-lined, 2.150" ID	
0.80	1	2-7/8"x2-3/8", 3.668" OD, x-over profile nipple, stainless steel, 1.78" ID	
7.20	1	2-3/8"x5.5" Arrowset I packer, set in tension, elements at 9036.60' KB	
9039.99		TOTAL, Set at 9040' KB	



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		FA
	Name of Street	0 0

DENVER

LED STATES ENVIRONMENTAL PROTECTION AGEN WASHINGTON, DC 20460

EPA	WELL REWORK RECORD
LME AND ADDRESS OF FERMITTEE WATTENBERG DISPOSAL LLC 1675 BROADWAY, STE. 2800	LAUFFAVAN U 10137 WCI

ME AND ADDRESS OF CONTRACTOR AUFFARA WELL SERVICE 10137 WCR 19 ET. LUPTON CO

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Co.

WAND OUTLINE UNIT ON

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CO WELD	CO1516 -02115						
	TOWNSHIF / N FANGE 67W						
Surface Location, 500 th, from IN/S) Sent Market Ma	Line of quarter section	TYPE OF FERMIT					
MErine Disposal DEnhanced Recovery Denhanced Recovery Denhanced Recovery Denhanced Recovery Denhanced Recovery	75 // Total Depth After Rework 957/ Date Rework Commenced	D Individual D Area Number of Wells Well Number					
	1-10-03 Date Rework Completed 1-16-03	No. 1					

WELL CASING RECORD - BEFORE REWORK Fedorations Acid or fracture Casing Sacks From Treatment Record 7/2 % HCL TRESTMENT 9418 9276 WELL CASING RECORD - AFTER REWORK Undicase Additions and Changes Only)

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Size	Depth	Sacks	Type	From	Ĩc	Treatment Record
						REVIEWED
						BY: The Publica
			1			
						DATE: 01/23/03
DESCRIEE REWORK OPERATIONS IN DETAIL						WIRE LINE LOGS, LIST EACH TYPE

USE ADDITIONAL SHEETS IF NECESSARY Log Types Logged Intervals PULLED TUBING & PACKER, RECOVERED PRESSURE TOOKS REPLACED FIBERLINED THBING WITH UNLINED TUBING, INSTALLED ANNULAR TREATED FLUID, SET PACKER AT GOILG' KB. CONDUCT MIT

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

ICIAL TITLE /	Flease type or print)
PICK OH	LEMEIER
MANAGER,	COMPLETIONS
	RICK OH

DATE SIGNED 1-17-03

Complianc

SUPERVISOR: Rick Ohlemeier

 Well: Suckla Farms Injection Well #1
 Road Dir: 19 at 10.5, 3/10E, N into
 DATE: 1/17/03

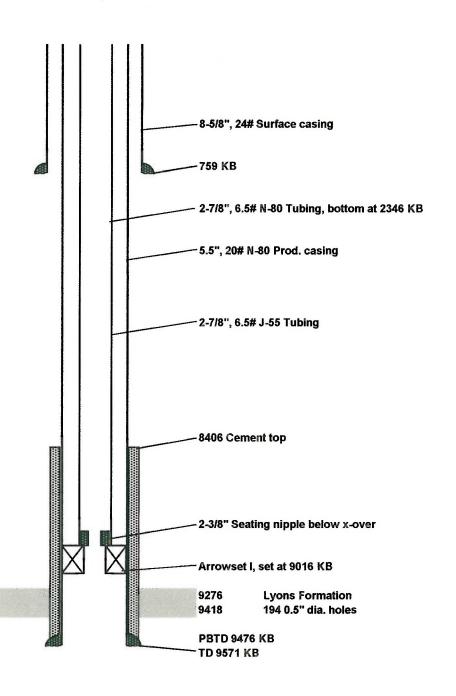
 L. Desc: senw 10 1n 67w
 County: Weld, CO Line Locate: n/a

 Formation: Lyons
 Perfs: 9276-9418, 194 holes

 Casing: 5.5" 20# N-80
 TD: 9571
 PBTD: 9476
 KB Meas: 10

Tubing Detail, 1/16/03:

<u>Footage</u>	No. its.	
7.00	KB	Top of tubing 7' under 10' KB meas.
2339.03	74	Tbg 2-7/8" OD, EUE, 8rd, 6.5#, N-80, yellow banded
6659.21	213	Tbg 2-7/8" OD, EUE, 8rd, 6.5#, J-55
1.7	1	2-3/8"x2-7/8" x-over
1.1	1	Seating nipple, 2-3/8"
7.8	1	2-3/8"x5.5" Arrowset I packer, set in compression, elements at 9013' KB
9015.84		TOTAL, Set at 9016' KB



JAN 211 J

SUPERVISOR: Rick Ohlemeier

	TO THOR OTHER					
Well: SUCKLA FARMS INJ. WELL #1		Road Dir: 19 at 10.	Road Dir: 19 at 10.5, .25E, N into		DATE:	
L. Desc:	senw 10-1n-67w	County: WELD, CO	Line Locate: n/a			

ounty:

Formation: Lvons Perfs: 9276-9418 194 holes

5.5" 20# N-80 TD: 9571 Casing: PBTD: 9476 KB Meas: 10

1/10/03 History: Lightning Wireline placed pressure recording bombs at SN (9106') on 1/8/03. On 1/9/03, contracted engineer attempted to begin step-rate test, but pumps pressured-out to 1200 psi. Wireline operator unable to retrieve tools due to 10' of trash and sediment which had settled on tool overnight. MIRU rig late on 1/9/03. Today: RIH with turned-down swab cups (2.025" dia.), well swabbed down to 7000' in three hrs, recovered 40 bf. Wireline operator attempted to retrieve, but stacked on plug in tubing at 8345' (661' above SN). Scheduled Maverick Coil-Tubing unit for 1/11/03, 7:00 a.m.

- 1/11/03 MIRU Maverick Coil-Tubing Services. RIH with 1.25" jet nozzle on 1.25" tubing, circulate to and stack-out on obstruction at 8326'. Repeatedly set 3000 lbs on obstruction with no further progress. Circ. clean for 45 min. POH coil tbg. MIRU Lightning Wireline. Operator RIH with impression block and stacked on obstruction at 8340' (wireline meas.), POH. Impression block has no conclusive markings. Operator does not want to attempt running retrieving head. Release all svcs.
- 1/12/03 Crew thawed wellhead, ice and air problems w/ rig, NDWH. Release packer, swab tubing down to 6000'. POH tbg, Pulled wet tubing from jts #250 to 263. Laid down jt #263 containing wireline tool assembly and scale. POH and recover x-over, SN, and packer -- no tools in SN. Attempt to hammer-out tools from jt #263 w/no success. SWI at 3:30 pm.
- 1/13/03 KWS roustabouts cut wireline tools from jt #263. Prep to run tubing and packer, WO wind to die. Move in Lightning Wireline, RIH with sinker bar in open casing, tag casing fill at 9442' KB, 24' below bottom perf at 9418'. PBTD at 9476'. Casing fill found on 7/15/98 at 9453' KB. Release rig crew due to high winds at 1:30 pm.
- 1/14/03 Install new tubing head, RIH N-80 Fiberline tubing, POH and lay down. Estimate 80% of collars have fiberglass lining torn out. (Current ops to 3 pm)
- 1/15/03 Lay down remainder of fiberline tubing (48 jts). RU H-S Testing, pick up singles and RIH used, 2-7/8" J-55, 6.5# tubing and test to 7000 psi. 135 jts in by 3pm, SD due to high wind. NFO.
- 1/16/03 Tally, pick up, hydrotest, and run remaining J-55 tubing, move in N-80 tubing. Tally, pick up, hydrotest and run 74 jts 2-7/8" N-80. Reverse-circulate 140 bbl fresh water treated with 20 gal Halliburton Anhib II. Set packer, load and test annulus to 500 psi for 15 min. Good test. Release pressure. Hook up 2 pen recorder and conduct MIT pre-test to 950 psi, Release pressure. Drain pump and pressure lines at 5 pm, wait on third party witness (Andy Peterson) to arrive loc. At 5:55 pm, hook up lines and pump into annulus to 940 psi. Isolate annulus from pump, observe pressure chart from 6:01 pm to 6:31 pm, release annular pressure to zero, but chart remained at full pressure due to test line freeze. SWI. Drain all equip. Release crews. NFO. Annulus will pass MIT, but pressure chart will not. Will re-test tomorrow. New tubing detail: Top: 74 jts 2-7/8" OD, EUE, 8rd, 6.5#, N-80 yellow banded tubing--2339.03'. Next: 213 jts 2-7/8" OD, EUE, 8rd,

6.5# J-55 used tubing--6659.21'. Next: 2-7/8"x2-3/8" x-over--1.7'. Next: 2-3/8" pump seating nipple--1.1'. Next: 2-3/8"x5.5" Arrowset I packer--7.8'. Set 3' under 10' KB, packer is in 18 pts compression at 9011.84' KB.

1/17/03 MIT reconducted in the presence of Louis Gibson, Gibson Enterprises, from 9:55 am to 10:35 am. SWI. NFO.